

5 ABSTRACT OF THE DISCLOSURE

A system and method for using a dual band transceiver to transmit and receive in a first and second band, while reducing the frequency sources. By reducing the number of frequency sources needed to operate a dual band transceiver and using common transmitter and receiver Intermediate Frequencies, the invention also reduces the number of filters and other components needed for its operation. The oscillating signals from these two frequency sources are scaled, combined, mixed, and filtered, such that only two primary frequency sources are needed to operate the front-end and back-end of both the transmitter and receiver of this dual band transceiver.

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